



Dolan Chemical Laboratory
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Water Analysis

Location: Mountaineer Plant

Report Date: 7/3/2013

1st Stage Feed

Sample Number: 132509-001 **Date Collected: 06/18/2013 08:00** **Date Received: 6/19/2013**

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Aluminum, Al	0.182	mg/L		0.0010	0.0003	DPC	06/26/2013 13:43	EPA 200.8
Arsenic, As	15.3	ug/L		0.10	0.030	DPC	06/26/2013 13:43	EPA 200.8
Selenium, Se	592	ug/L		0.50	0.20	DPC	06/26/2013 13:43	EPA 200.8
Beryllium, Be	< 0.10	ug/L	U	0.50	0.10	DAM	07/01/2013 19:21	EPA 200.7
Boron, B	120	mg/L		0.020	0.0040	DAM	07/01/2013 19:21	EPA 200.7
Iron, Fe	0.600	mg/L		0.050	0.010	DAM	07/01/2013 19:21	EPA 200.7
Total Kjeldahl Nitrogen, TKN as N	0.43	mg/L	J	0.50	0.10	DMM	06/26/2013	EPA 351.2
Nitrate-Nitrite, NO3-NO2, as N	21.4	mg/L		0.10	0.020	DMM	06/21/2013	SM20 4500NO3 H
Phosphorus, Total, P	0.06	mg/L		0.050	0.010	DMM	06/26/2013	EPA 365.4
Residue, Filterable, TDS	12000	mg/L		400	120	MSO	06/20/2013	SM20 2540C
Sulfate, SO4	4580	mg/L		25	7.5	TJK	06/20/2013	EPA 300.1

2nd Stage Feed

Sample Number: 132509-002 **Date Collected: 06/18/2013 08:00** **Date Received: 6/19/2013**

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Aluminum, Al	17.0	mg/L		0.0010	0.0003	DPC	06/26/2013 13:48	EPA 200.8
Arsenic, As	72.5	ug/L		0.10	0.030	DPC	06/26/2013 13:48	EPA 200.8
Selenium, Se	228	ug/L		0.50	0.20	DPC	06/26/2013 13:48	EPA 200.8
Beryllium, Be	2.7	ug/L		0.50	0.10	DAM	07/01/2013 19:28	EPA 200.7
Boron, B	113	mg/L		0.020	0.0040	DAM	07/01/2013 19:28	EPA 200.7
Iron, Fe	24.5	mg/L		0.050	0.010	DAM	07/01/2013 19:28	EPA 200.7

Bioreactor Effluent

Sample Number: 132509-003

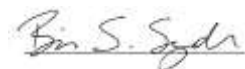
Date Collected: 06/18/2013 08:00

Date Received: 6/19/2013

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Aluminum, Al	6.74	mg/L		0.0010	0.0003	DPC	06/26/2013 13:53	EPA 200.8
Arsenic, As	0.77	ug/L		0.10	0.030	DPC	06/26/2013 13:53	EPA 200.8
Selenium, Se	0.49	ug/L	J	0.50	0.20	DPC	06/26/2013 13:53	EPA 200.8
Beryllium, Be	< 0.10	ug/L	U	0.50	0.10	DAM	07/01/2013 19:46	EPA 200.7
Boron, B	115	mg/L		0.020	0.0040	DAM	07/01/2013 19:46	EPA 200.7
Iron, Fe	14.1	mg/L		0.050	0.010	DAM	07/01/2013 19:46	EPA 200.7
Total Kjeldahl Nitrogen, TKN as N	4.37	mg/L		0.50	0.10	DMM	06/26/2013	EPA 351.2
Nitrate-Nitrite, NO3-NO2, as N	0.50	mg/L		0.10	0.020	DMM	06/21/2013	SM20 4500NO3 H
Phosphorus, Total, P	0.13	mg/L		0.050	0.010	DMM	06/26/2013	EPA 365.4
Residue, Filterable, TDS	11700	mg/L		400	120	MSO	06/20/2013	SM20 2540C
Sulfate, SO4	5680	mg/L		25	7.5	TJK	06/20/2013	EPA 300.1

U: Analyte was analyzed and not detected at or above adjusted Method Detection Limit

J: Analyte was positively identified, though the quantitation was below Reporting Limit.



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THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF THE LABORATORY. ALL TEST RESULTS MEET ALL OF THE REQUIREMENTS OF THE ACCREDITING AUTHORITY, UNLESS OTHERWISE NOTED.